

**Current session 16/10/2002**

**Query/Command : N**

..FILE / ..INFO / ..GUIDE

**Query/Command : FILE PLUSPAT**

QUESTEL - Time in minutes : 0,84

The cost estimation below is based on Questel's standard price list

	Estimated cost :	0.72 USD
Cost estimated for the last database search :		0.72 USD
Estimated total session cost :		0.72 USD

Selected file: PLUSPAT

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Comprehensive Worldwide Patents database

New Patent Citation Commands & FAM Citation Report - see INFO PATCITE

Last update of file: 2002/10/10 (YYYY/MM/DD) 2002-40/UP (basic update)

Search statement 1

**Query/Command : US6121501/PN**

**\*\* SS 1: Results 1**

Search statement 2

**Query/Command : PRT FULL NONSTOP LEGALALL**

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*1 / 1 PLUSPAT - ©QUESTEL-ORBIT*

**PN** - US6121501 A 20000919 [US6121501]  
**TI** - (A) Process for preparing 2,6-dialkylnaphthalene  
**PA** - (A) KOBE STEEL LTD (JP); MOBIL OIL CORP (US)  
**IN** - (A) MOTOYUKI MASAHIRO (JP); YAMAMOTO KOJI (JP); SAPRE AJIT VISHWANATH (US); MC WILLIAMS JOHN PAUL (US); DONNELLY SUSAN PATRICIA (US)  
**AP** - US28884799 19990409 [1999US-0288847]  
**PR** - US28884799 19990409 [1999US-0288847]  
US94829997 19971010 [1997US-0948299]  
**IC** - (A) C07C-001/00 C07C-002/68 C07C-004/12 C07C-005/22  
**EC** - C07C-004/12  
C07C-015/24  
**ICO** - M07C-521/04  
M07C-523/26  
M07C-523/75

M07C-523/883

- PCL** - ORIGINAL (O) : 585323000; CROSS-REFERENCE (X) : 585312000  
585313000 585314000 585315000 585449000 585450000 585467000  
585478000 585481000 585486000 585489000
- DT** - Basic
- CT** - US4950824; US5292934; US5844064; WO9003961
- STG** - (A) United States patent
- AB** - A process for producing 2,6-dialkylnaphthalene from a hydrocarbon feedstock that contains at least one component selected from the group consisting of dialkylnaphthalene isomers, monoalkylnaphthalene isomers, polyalkylnaphthalenes, and naphthalene, is provided that includes the following steps:  
I. separating the hydrocarbon feedstock and/or a dealkylation product fed from step III into a naphthalene fraction, a monoalkylnaphthalene fraction, a dialkylnaphthalene fraction and a remaining products fraction;  
II. separating and purifying 2,6-dialkylnaphthalene from the dialkylnaphthalene fraction of step I;  
III. dealkylating the hydrocarbon feedstock and/or the remaining products fraction of step I and feeding the dealkylation product to step I; and  
IV. alkylating the naphthalene and monoalkylnaphthalene fractions of step I; wherein the hydrocarbon feedstock is fed to step I or step III.
- UP** - 2000-35

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1 / 1 LGST - ©LEGSTAT

- PN** - US 6121501 [US6121501]
- AP** - US 288847/99 19990409 [1999US-0288847]
- DT** - US-P
- ACT** - 19990409 US/AE-A  
APPLICATION DATA (PATENT)  
US 288847/99 19990409 [1999US-0288847]

20000919 US/A  
PATENT

20020528 US/RF  
REISSUE APPLICATION FILED  
20020219

- UP** - 2002-24

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1 / 1 CRXX - ©CLAIMS/RRX

PN - 6,121,501 A 20000919 [US6121501]  
PA - Kobe Steel Ltd JP; Mobil Oil Corp  
ACT - 20020219 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20020528  
REISSUE REQUEST NUMBER: 10/076431  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 1764

Reissue Patent Number:

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1 / 1 PAST - ©Thomson Derwent

AN - 200222-001915  
PN - 6121501 A [US6121501]  
OG - 2002-05-28  
ACT - REISSUE APPLICATION FILED

Query/Command : FILE INPADOC

PLUSPAT - Time in minutes : 0,51  
The cost estimation below is based on Questel's  
standard price list

Estimated cost :	1.12 USD
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Estimated cost :	1.10 USD
Cost estimated for the last database search :	2.22 USD
Estimated total session cost :	2.94 USD

LGST - Time in minutes : 0,22  
The cost estimation below is based on Questel's  
standard price list

Estimated cost :	0.24 USD
Records displayed and billed :	1
Estimated cost :	0.57 USD
Cost estimated for the last database search :	0.81 USD
Estimated total session cost :	3.75 USD

CRXX - Time in minutes : 0,05  
The cost estimation below is based on Questel's  
standard price list

Estimated cost :	0.07 USD
Records displayed and billed :	1
Estimated cost :	5.00 USD
Cost estimated for the last database search :	5.07 USD
Estimated total session cost :	8.82 USD

PAST - Time in minutes : 0,05  
The cost estimation below is based on Questel's

standard price list

	Estimated cost :	0.09 USD
Records displayed and billed :	1	
	Estimated cost :	5.61 USD
Cost estimated for the last database search :		5.70 USD
Estimated total session cost :		14.52 USD

LITA - Time in minutes : 0,01

The cost estimation below is based on Questel's standard price list

	Estimated cost :	0.01 USD
Cost estimated for the last database search :		0.01 USD
Estimated total session cost :		14.53 USD

Selected file: INPADOC

You are now connected to INPADOC

Covers 1968/1973 thru weekly updates (2002-41)  
For information on content, (...)INFO INPD.

Search statement 1

Query/Command : FAM US6121501/PN

1 Patent Groups

**\*\* SS 1: Results 7**

Search statement 2

Query/Command : FAMSTATE NONSTOP

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1 / 7 INPADOC - ©INPADOC

PN - CA 2306250 AA 19990422 [CA2306250]  
TI - PROCESS FOR PREPARING 2,6-DIALKYLNAPHTHALENE  
LA - ENG  
IN - MOTOYUKI MASAHIRO [JP]; YAMAMOTO KOJI [JP]; SAPRE AJIT  
VISHWANATH [US]; MCWILLIAMS JOHN PAUL [US]; DONNELLY  
SUSAN PATRICIA [US]  
PA - KOBE STEEL LTD [JP]; MOBIL OIL CORP [US]  
AP - CA 2306250/98-A 19981009 [1998CA-2306250]  
PR - US 948299/97-A 19971010 [1997US-0948299]  
WO 9820929/98(US)-W 19981009 [1998WO-US20929]  
IC - C07C-001/10; C08G-063/00; C08G-063/02; C07C-005/22; C08G-063/52;  
C07C-002/64; C07C-002/68

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1 / 1 LEGALI - ©LEGSTAT

PN - CA 2306250 [CA2306250]  
DT - CA-P

**ACTE** - 20000407 CA/REFW-P  
CORRESPONDS TO PCT APPLICATION  
<WO 9919278> [WO9919278]

**UP** - 2000-42

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*2 / 7 INPADOC - ©INPADOC*

**PN** - EP 1023250 A1 20000802 [EP1023250]  
**TI** - PROCESS FOR PREPARING 2,6-DIALKYLNAPHTHALENE  
**LA** - ENG  
**IN** - MOTOYUKI MASAHIRO [JP]; YAMAMOTO KOJI [JP]; SAPRE AJIT  
VISHWANATH [US]; MCWILLIAMS JOHN PAUL [US]; DONNELLY  
SUSAN PATRICIA [US]  
**PA** - KOBE STEEL LTD [JP]; MOBIL OIL CORP [US]  
**AP** - EP 98953257/98-A 19981009 [1998EP-0953257]  
**PR** - WO 9820929/98(US)-W 19981009 [1998WO-US20929]  
US 948299/97-A 19971010 [1997US-0948299]  
**IC** - C07C-001/10; C07C-002/64; C07C-002/68; C07C-005/22; C08G-063/00;  
C08G-063/02; C08G-063/52  
**DS** - BE\* CH\* DE\* FR\* GB\* IT\* LI\* NL\* SE\*

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*1 / 1 LEGALI - ©LEGSTAT*

**PN** - EP 1023250 [EP1023250]  
**AP** - EP 98953257/98 19981009 [1998EP-0953257]  
**DT** - EP-P  
**ACTE** - 19981009 EP/AE-A  
EP-APPLICATION  
EP 98953257/98 19981009 [1998EP-0953257]

20000802 EP/AK-A1 [+]  
DESIGNATED CONTRACTING STATES IN AN APPLICATION WITH  
SEARCH REPORT:  
BE CH DE FR GB IT LI NL SE

20000802 EP/A1 [+]  
PUBLICATION OF APPLICATION WITH SEARCH REPORT

20000802 EP/17P [+]  
REQUEST FOR EXAMINATION FILED  
20000504

20001220 EP/RIC1  
CLASSIFICATION (CORRECTION)  
7C 07C 15/24 A, 7C 07C 2/64 B, 7C 07C 2/68 B, 7C 07C 5/22 B, 7C 08G  
63/00 B, 7C 08G 63/02 B, 7C 08G 63/52 B

20010321 EP/AK-A4 [+]  
DESIGNATED CONTRACTING STATES MENTIONED IN A  
SUPPLEMENTARY SEARCH REPORT:  
BE CH DE FR GB IT LI NL SE

20010321 EP/A4 [+]  
SUPPLEMENTARY SEARCH REPORT  
20010131

20011031 EP/RAP1  
APPLICANT REASSIGNMENT (CORRECTION)  
KABUSHIKI KAISHA KOBE SEIKO SHO \* EXXONMOBIL OIL  
CORPORATION

20020417 EP/17Q [+]  
FIRST EXAMINATION REPORT  
20020301

UP - 2002-16

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3 / 7 INPADOC - ©INPADOC

PN - EP 1023250 A4 20010321 [EP1023250]  
TI - PROCESS FOR PREPARING 2,6-DIALKYLNAPHTHALENE  
LA - ENG  
IN - MOTOYUKI MASAHIRO [JP]; YAMAMOTO KOJI [JP]; SAPRE AJIT  
VISHWANATH [US]; MCWILLIAMS JOHN PAUL [US]; DONNELLY  
SUSAN PATRICIA [US]  
PA - KOBE STEEL LTD [JP]; MOBIL OIL CORP [US]  
AP - EP 98953257/98-A 19981009 [1998EP-0953257]  
PR - WO 9820929/98(US)-W 19981009 [1998WO-US20929]  
US 948299/97-A 19971010 [1997US-0948299]  
IC - C07C-015/24; C07C-002/64; C07C-002/68; C07C-005/22; C08G-063/00;  
C08G-063/02; C08G-063/52  
DS - BE\* CH\* DE\* FR\* GB\* IT\* LI\* NL\* SE\*

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1 / 1 LEGALI - ©LEGSTAT

PN - EP 1023250 [EP1023250]

**AP** - EP 98953257/98 19981009 [1998EP-0953257]

**DT** - EP-P

**ACTE** - 19981009 EP/AE-A  
EP-APPLICATION  
EP 98953257/98 19981009 [1998EP-0953257]

20000802 EP/AK-A1 [+]  
DESIGNATED CONTRACTING STATES IN AN APPLICATION WITH  
SEARCH REPORT:  
BE CH DE FR GB IT LI NL SE

20000802 EP/A1 [+]  
PUBLICATION OF APPLICATION WITH SEARCH REPORT

20000802 EP/17P [+]  
REQUEST FOR EXAMINATION FILED  
20000504

20001220 EP/RIC1  
CLASSIFICATION (CORRECTION)  
7C 07C 15/24 A, 7C 07C 2/64 B, 7C 07C 2/68 B, 7C 07C 5/22 B, 7C 08G  
63/00 B, 7C 08G 63/02 B, 7C 08G 63/52 B

20010321 EP/AK-A4 [+]  
DESIGNATED CONTRACTING STATES MENTIONED IN A  
SUPPLEMENTARY SEARCH REPORT:  
BE CH DE FR GB IT LI NL SE

20010321 EP/A4 [+]  
SUPPLEMENTARY SEARCH REPORT  
20010131

20011031 EP/RAP1  
APPLICANT REASSIGNMENT (CORRECTION)  
KABUSHIKI KAISHA KOBE SEIKO SHO \* EXXONMOBIL OIL  
CORPORATION

20020417 EP/17Q [+]  
FIRST EXAMINATION REPORT  
20020301

**UP** - 2002-16

**AP** - JP 2000515853/00-A 19981009 [2000JP-0515853]  
**PR** - US 948299/97-A 19971010 [1997US-0948299]  
WO 9820929/98(US)-W 19981009 [1998WO-US20929]  
**IC** - C07C-002/86; C07C-005/22; C07C-006/12; C07C-007/14; C07C-015/24;  
C08G-063/78; C07B-061/00

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*5 / 7 INPADOC - ©INPADOC*

**PN** - US 6018086 A 20000125 [US6018086]  
**TI** - PROCESS FOR PREPARING 2,6-DIALKYLNAPHTHALENE  
**IN** - MOTOYUKI MASAHIRO [JP]; YAMAMOTO KOJI [JP]; SAPRE AJIT  
VISHWANATH [US]; MC WILLIAMS JOHN PAUL [US]; DONNELLY  
SUSAN PATRICIA [US]  
**PA** - KOBE STEEL LTD [JP]; MOBIL OIL CORP [US]  
**AP** - US 948299/97-A 19971010 [1997US-0948299]  
**PR** - US 948299/97-A 19971010 [1997US-0948299]  
**IC** - C07C-001/00; C07C-002/68; C07C-005/22; C07C-004/12

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*1 / 1 LEGALI - ©LEGSTAT*

**PN** - US 6018086 [US6018086]  
**AP** - US 948299/97 19971010 [1997US-0948299]  
**DT** - US-P  
**ACTE** - 19971010 US/AE-A  
APPLICATION DATA (PATENT)  
US 948299/97 19971010 [1997US-0948299]  
  
20000125 US/A  
PATENT  
  
20020709 US/RF  
REISSUE APPLICATION FILED  
20020124  
**UP** - 2002-31

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*6 / 7 INPADOC - ©INPADOC*

**PN** - US 6121501 A 20000919 [US6121501]  
**TI** - PROCESS FOR PREPARING 2,6-DIALKYLNAPHTHALENE  
**IN** - MOTOYUKI MASAHIRO [JP]; YAMAMOTO KOJI [JP]; SAPRE AJIT  
VISHWANATH [US]; MC WILLIAMS JOHN PAUL [US]; DONNELLY



SUSAN PATRICIA [US]  
**PA** - KOBE STEEL LTD [JP]; MOBIL OIL CORP [US]  
**AP** - US 288847/99-A 19990409 [1999US-0288847]  
**PR** - US 288847/99-A 19990409 [1999US-0288847]  
US 948299/97-A2 19971010 [1997US-0948299]  
**IC** - C07C-001/00; C07C-004/12; C07C-005/22; C07C-002/68

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1 / 1 LEGALI - ©LEGSTAT

**PN** - US 6121501 [US6121501]  
**AP** - US 288847/99 19990409 [1999US-0288847]  
**DT** - US-P  
**ACTE** - 19990409 US/AE-A  
APPLICATION DATA (PATENT)  
US 288847/99 19990409 [1999US-0288847]  
20000919 US/A  
PATENT  
20020528 US/RF  
REISSUE APPLICATION FILED  
20020219  
**UP** - 2002-24

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7 / 7 INPADOC - ©INPADOC

**PN** - WO 9919278 A1 19990422 [WO9919278]  
**TI** - PROCESS FOR PREPARING 2,6-DIALKYLNAPHTHALENE  
**LA** - ENG  
**IN** - MOTOYUKI MASAHIRO; YAMAMOTO KOJI; SAPRE AJIT  
VISHWANATH; MCWILLIAMS JOHN PAUL; DONNELLY SUSAN  
PATRICIA  
**PA** - KOBE STEEL LTD [JP]; MOBIL OIL CORP [US]  
**AP** - WO US 9820929/98(US)-A 19981009 [1998WO-US20929]  
**PR** - US 948299/97-A 19971010 [1997US-0948299]  
**IC** - C07C-001/10; C07C-002/64; C07C-002/68; C07C-005/22; C08G-063/00;  
C08G-063/02; C08G-063/52  
**DS** - CA\* JP\* KR\* SG\* AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC  
NL PT SE

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1 / 4 LEGALI - ©LEGSTAT

PN - JP 515853/2000  
AP - JP 515853/2000 0 [2000JP-0515853]  
DT - JP-A  
ACTE - 20000410 JP/REFW-P  
CORRESPONDS TO PCT APPLICATION  
<WO 9919278> WO9919278  
UP - 2002-09

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2 / 4 LEGALI - ©LEGSTAT

PN - KR 2000703756 [KR2000703756]  
AP - KR 2000703756 - [2000KR-0703756]  
DT - KR-A  
ACTE - 20000407 KR/REFW-P  
CORRESPONDS TO PCT APPLICATION  
<WO 9919278> [WO9919278]  
UP - 2001-39

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3 / 4 LEGALI - ©LEGSTAT

PN - CA 2306250 [CA2306250]  
DT - CA-P  
ACTE - 20000407 CA/REFW-P  
CORRESPONDS TO PCT APPLICATION  
<WO 9919278> [WO9919278]  
UP - 2000-42

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4 / 4 LEGALI - ©LEGSTAT

PN - WO 9919278 [WO9919278]  
AP - WO 9820929/98(US) 19981009 [1998WO-US20929]  
DT - WO-P  
ACTE - 19981009 WO/AE-A  
APPLICATION DATA  
WO 9820929/98(US) 19981009 [1998WO-US20929]  
  
19990422 WO/AK-A1 [+]  
DESIGNATED STATES CITED IN A PUBLISHED APPLICATION WITH  
SEARCH REPORT

CA JP KR SG

19990422 WO/AL-A1 [+]

DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A  
PUBLISHED APPLICATION WITH SEARCH REPORT

AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

19990422 WO/A1 [+]

PUBLICATION OF THE INTERNATIONAL APPLICATION WITH THE  
INTERNATIONAL SEARCH REPORT

19990623 WO/121

EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS  
DESIGNATED IN THIS APPLICATION

19990708 WO/DFPE

REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO  
EXPIRATION OF 19TH MONTH FROM PRIORITY DATE

20000407 WO/ENP-AA

ENTRY INTO THE NATIONAL PHASE IN:

<CA 2306250>

20000407 WO/ENP-A

ENTRY INTO THE NATIONAL PHASE IN:

<KR 002000703756>

20000410 WO/ENP-A

ENTRY INTO THE NATIONAL PHASE IN:

<JP 00515853>

**UP** - 2002-09

PATNO IS 6121501

DATE: OCTOBER 16, 2002  
LIBRARY: PATENT  
FILE: ALL

Your search request is:  
PATNO IS 6121501

Number of PATENTS found with your search request through:  
LEVEL 1... 1

Your search request has found 1 PATENT through Level 1.  
To DISPLAY this PATENT press either the KWIC, FULL, CITE or SEGMENTS key.  
To MODIFY your search request, press the M key (for MODIFY) and then the ENTER key.

For further explanation, press the H key (for HELP) and then the ENTER key.

LEVEL 1 - 1 PATENT

1. 6121501 , September 19, 2000 , Process for preparing 2,6-dialkylnaphthalene ,  
Motoyuki, Masahiro, Osaka, JPX; Yamamoto, Koji, Kobe, JPX; Sapre, Ajit  
Vishwanath, Moorestown, NJ; Mc Williams, John Paul, Woodbury, NJ; Donnelly,  
Susan Patricia, Kingwood, TX, 00288847 (00), Kabushiki Kaisha Kobe Seiko Sho,  
Kobe, JPX Mobil Oil Corporation, Fairfax, VA

CORE TERMS: feedstock, catalyst, naphthalene, dialkylnaphthalene, fraction,  
crystallization, alkylation, distillation, reactor, isomer ...

6121501

<=1> GET 1st DRAWING SHEET OF 9

September 19, 2000

Process for preparing 2,6-dialkylnaphthalene

REISSUE: February 19, 2002 - Reissue Application filed Ex. Gp.: 1764; Re. S.N. 10/076,431 May 28, 2002

APPL-NO: 00288847 (00)

FILED-DATE: April 9, 1999

GRANTED-DATE: September 19, 2000

CORE TERMS: feedstock, catalyst, naphthalene, dialkylnaphthalene, fraction, crystallization, alkylation, distillation, reactor, isomer ...

ENGLISH-ABST:

A process for producing 2,6-dialkylnaphthalene from a hydrocarbon feedstock that contains at least one component selected from the group consisting of dialkylnaphthalene isomers, monoalkylnaphthalene isomers, polyalkylnaphthalenes, and naphthalene, is provided that includes the following steps:<P><P>I. separating the hydrocarbon feedstock and/or a dealkylation product fed from step III into a naphthalene fraction, a monoalkylnaphthalene fraction, a dialkylnaphthalene fraction and a remaining products fraction;<P><P>II. separating and purifying 2,6- dialkylnaphthalene from the dialkylnaphthalene fraction of step I;<P><P> III. dealkylating the hydrocarbon feedstock and/or the remaining products fraction of step I and feeding the dealkylation product to step I; and<P><P>IV. alkylating the naphthalene and monoalkylnaphthalene fractions of step I;<P>< P>wherein the hydrocarbon feedstock is fed to step I or step III.

6121501 OR 6,121,501

Your search request has found no CASES.

To edit the above request, use the arrow keys. Be sure to move the cursor to the end of the request before you enter it.

To enter a new search request, type it and press the ENTER key.

What you enter will be Search Level 1.

For further explanation, press the H key (for HELP) and then the ENTER key.